**Review of Substance Abuse**

1. **Drug Categories/Effects: Please identify the general drug effect category associated with each drug listed below. (stimulant, depressant, hallucinogen, narcotic or inhalant)**
2. Cocaine: 6. Synthetic Marijuana:
3. Alcohol: 7. Cough Syrup with DXM:
4. Ritalin/Adderall: 8. Methamphetamines:
5. Oxycontin: 9. Amphetamines:
6. Marijuana: 10. Nicotine:

**For each drug category, indicate its general effect on the human body:**

Depressants:

Stimulants:

Hallucinogens:

Narcotics:

**B. Drug Information: Each choice will be used TWICE**

**A. Cocaine B. Methamphetamines C. Amphetamines D. Cough Syrup**

**E. Prescription Painkillers F. Synthetic Marijuana G. Inhalants H. Marijuana**

1. \_\_\_\_\_\_Used medically to reduce pain, nausea, vomiting, and increase appetite

2.\_\_\_\_\_\_Will cause immediate brain cell death, often abused by middle school students.

3.\_\_\_\_\_\_Household products that are huffed or sniffed

4.\_\_\_\_\_\_A dangerous designer/synthetic drug that can cause severe paranoia and psychotic episodes

5.\_\_\_\_\_\_Legal stimulant drugs, used to treat ADHD

6.\_\_\_\_\_\_Illegal stimulant drug, typically made in homemade labs

7.\_\_\_\_\_\_Legal narcotic drugs, very addictive

8.\_\_\_\_\_\_Schedule II stimulant drug, used medically as a numbing agent during surgeries

9.\_\_\_\_\_\_Currently illegal by federal government standards, but manufacturers can create new “recipes”

that are not illegal, keeping it on the market

10.\_\_\_\_\_\_ Causes a short high and a significant crash following use, very dangerous to heart

11.\_\_\_\_\_\_ Used recreationally to stay awake, lose weight, and enhance performance

12.\_\_\_\_\_\_\_ First use often leads to “acute panic anxiety reaction”

13.\_\_\_\_\_\_\_ Use can lead to permanent damage to thinking skills, seizures, flashbacks and death

14.\_\_\_\_\_\_ Have a “controlled release” effect, provide pain relief for 8-12 hours

15.\_\_\_\_\_\_ Illegal to purchase unless 18 years old, is sometimes sold behind the counter to prevent stealing

16.\_\_\_\_\_\_Leads to dental problems, psychosis, weight loss, and premature aging

**C. Legal Issues:**

1. Differentiate between a Schedule I and Schedule II drug according to the Controlled Substances Act.

**D. General Drug Info/Questions**

1. Discuss three concerns associated with the use of cocaine:
2. Methamphetamines and cocaine are both stimulant drugs, but discuss two ways that meth is different than cocaine:
3. Discuss the primary medical use of amphetamines AND 2-3 reasons why amphetamines may be used for recreational purposes.

Medical:

Recreational:

1. What is the concern associated with combining alcohol and prescription painkillers?
2. Discuss two ways in which synthetic marijuana is DIFFERENT than marijuana:
3. What conflict exists between state and federal laws related to the medicinal use of marijuana? (include a discussion of the legal differences, the issues created by the difference, AND what marinol is)

7. What two factors are the most significant in determining how alcohol will affect a person?

a. b.

8. What are three reasons why women are effected more quickly by alcohol then men?

a. b. c.

9. Discuss the .02 Rule:

10. If a teenager had a BAC of .15 at 8pm, what time could they legally drive home according to the .02 rule?

11. What are ways to get alcohol out of your system more quickly?

12. What are signs that a person may be suffering from alcohol poisoning, and what should you do if it happens:

13. What are the withdrawal symptoms associated with marijuana addiction AND why do they onset several weeks after the last use?

14. What are 5 tips for “safer” drinking?

15-16. Summarize the effects of marijuana on each body part/system/function listed below:

Lungs:

IQ:

Mental Health Concerns:

**Matching:**

A. Axon B. Dendrite C. Synapse D. Uptake Receptor

E. Reuptake Pump F. Neuron G. Neurotransmitter

17.\_\_\_\_\_\_\_\_\_ The receiving end of a neuron

18. \_\_\_\_\_\_\_\_\_ Collects unused neurotransmitter and returns it to the axon

19.\_\_\_\_\_\_\_\_\_ A nerve or brain cell 20.\_\_\_\_\_\_\_\_\_ A chemical that is released by the axon to create a change

21.\_\_\_\_\_\_\_\_\_ Picks up the neurotransmitter on the dendrite 22.\_\_\_\_\_\_\_\_\_ The sending end of a neuron

23.\_\_\_\_\_\_\_\_\_ The gap between two neurons

24.A neurotransmitter that improves mood and can be boosted by carb consumption:

25.A neurotransmitter that causes euphoria and decreased pain:

26.A neurotransmitter that initiates the Fight or Flight or STRESS Response:

27.A neurotransmitter that is impacts pleasure and is released with cocaine use:

28.What specific change does cocaine have on normal neuron function to prolong a person’s exposure to the neurotransmitter dopamine?

29-30. What 2 changes will your body/brain potentially make in response to prolonged drug use and over exposure to neurotransmitters:

1.

2.

31. What does research indicate about the teen brain in comparison to the adult brain.

**Unit One Test Outline: All topics listed below may be on the exam.**

**Risk Taking:** Current Research for Teen Brain Development

**Substances:**

**Drug Categories: Stimulants, Hallucinogens, Depressants, Narcotics, Inhalants**

Desired (intended) vs. Undesired (unintended) Effects of a Drug

Addiction, Withdrawal & Tolerance/Method of Drug Delivery: Impact on Body  
Drug Scheduling: Controlled Substances Act (5 Schedules)

**Stimulants:**  
Amphetamines: medical use vs. recreational use, effects, reasons it is abused  
Cocaine: Medical vs. Recreational Use, Legal Status/Scheduling, effects on cardiovascular system  
Methamphetamines: General effects, how it is different than cocaine, damage to body, Combat Methamphetamine Epidemic Act of 2005 (what it is, what it regulates, purpose)

**Depressants**:  
Alcohol: Factors determining absorption, impact on men vs. women, .02 rule, energy drinks and alcohol, sober myths, signs of alcohol poisoning and how to respond, safer drinking tips

**Narcotics:**  
Prescription Painkillers: recreational vs. medical use, addiction and dangers, controlled release

**Hallucinogens:**

**Cough Syrup with DXM: Current laws, effects on body and concerns/issues**Marijuana: Short/long term effects(know effects on each part of body/addiction/withdrawal symptoms/impact on learning/memory, etc., legal and scheduling status), how is it used, duration of effects, marijuana today vs 20 years ago

Medical Marijuana: medicinal uses/effects on body for medical purposes, legalization issues, state vs. federal gov’t conflicts, how accessed for medical patients  
Marinol: What is it?, how different than smoked medical marijuana, legal status

Synthetic Marijuana: What is it, how marketed, legal status

**Neuron Function:** Normal Nerve Cell Function/Drugs and Nerve Cell Function  
Parts of a Neuron (be able to label diagram)  
How cocaine and opiates/narcotics impact normal neuron function  
Neurotransmitters: serotonin, dopamine, adrenaline, endorphins: main function of each in the body

**Unit Packet Due Friday 9/19: Please make sure ALL assignments are fully completed!!**

Review Game:

First: Terms Activity:

Inhalants Withdrawals Schedule I Tolerance

Depressants Schedule II Wakefulness Speed Systems

Relaxe Decrease appetite Slow Systems Stimulants

Cocaine Toxins/Poisons Alcohol Dental Issues

Methamphetamines Labs Amphetamines Oxycontin

Numbing Agent for Surgery Narcotics/Opiates Heroin

Painkillers Morphine Controlled Release Time

Stay awake Amount Consumed ADHD/Sleep Disorders

Respiratory Depression Constricts Blood Vessels Cough Medicine

Ages Person Hallucinogens Marinol Marijuana

Weight Household Products Crash

Lose weight Food in Stomach Improve performance

Drop in IQ Gender Anxiety/Depression

Drug Terms Review Activity:

* 2 issues of meth: dental issues, agest person
* factors impacting absorption of alcohol: food in stomach, gender, weight, amount consumed
* addiction is characterized by : tolerance/withdrawals
* define tolerance and withdrawals
* a way to sober someone up: time
* recent studies show marijuana causes: drop in iq
* people with these conditions should use pot can increase s/s: anxiety/depression
* all stimulants together: cocaine, amphetamines, methamphetamines
* 3 effects of stimulant drugs: wakefulness, speed systems, decrease appetite, constrict blood vessels
* all depressants together: alcohol
* two effects that all depressants have: relaxed, slow systems
* common link between methamphetamines and inhalants: toxins/poisons
* put all narcotics together: heroin, oxy, morphine
* narcotics are used legally as:painkillers and are made with this feature to give pain relief over time : controlled release
* most narcotics are schedule: II
* two common dangers associated with inhalants: hypoxia and sudden sniffing
* amphetmaines are used legally to : adhd/sleep disorders
* recreational use of amphetamines: stay awake, lose weight and improve performance
* Combat meth act limited access to what
* Taking 2 depressants at once could significantly increase the chances of : respiratory depression
* Cocaine is a schedule II drug because: topical numbing agent

Then do a review of the neuron info with the white board:

**Neuron Function:** Normal Nerve Cell Function/Drugs and Nerve Cell Function  
Parts of a Neuron (be able to label diagram)  
How cocaine and opiates/narcotics impact normal neuron function  
Neurotransmitters: serotonin, dopamine, adrenaline, endorphins: main function of each in the body

Have draw diagram and label

**Risk Taking:** Leading killers of Teens/Risk Factors associated with each cause of death  
Common Risk Factors for Causes of Teen Death  
**Substances:** Therapeutic vs. Non-Therapeutic Effects  
Method of Drug Delivery: Impact on Body  
Drug Scheduling: Controlled Substances Act  
**Hallucinogens:**  
Marijuana and Marinol: short/long term effects(know effects on each part of body/addiction/withdrawal symptoms/impact on learning/memory, legal and scheduling status,   
medicinal value/uses/effects, legalization issues, state vs. federal gov’t conflicts  
Bath Salts/Synthetic Marijuana/Cough Syrup: General info/effects/legal status  
**Inhalants**:   
Products, general effect/Who is abusing them/health concerns  
**Depressants**:  
GHB/Rohypnol: Scheduling/Legal Status, Why used for date rape purposes, impact of drugs on body, protecting yourself, medical use in other countries  
Alcohol: Factors determining absorption, impact on men vs. women, .02 rule, energy drinks and alcohol, sober myths, signs of alcohol poisoning and how to respond, purpose of ignition interlock devices  
**Narcotics:**  
Prescription Painkillers: recreational vs. prescribed use, addiction and dangers, controlled release  
Heroin: VERY dangerous, schedule I narcotic  
**Stimulants:**  
Amphetamines: medical use vs. recreational use, effects, reasons it is abused  
Cocaine: Medical vs. Recreational Use, Legal Status/Scheduling, effects on cardiovascular system  
Methamphetamines: General effects, how it is different than cocaine, restrictions on product access to make meth labs (Combat Meth Epidemic Act of 2005)  
**Neuron Function:** Normal Nerve Cell Function/Drugs and Nerve Cell Function  
Parts of a Neuron (be able to label diagram)  
How cocaine and opiates/narcotics impact normal neuron function  
Neurotransmitters: serotonin, dopamine, adrenaline, endorphins: main function of each in the body

Stimulants

* identify 2 illegal stimulant drugs
* identify 2 legal stimulant drugs
* 1 impact on cardiovascular system...increases heart rate/constricts blood vessels
* meth vs. cocaine(main reason more harmful...chemicals)
* recreational use of amphetamines
* cocaine medical use: numbs skin/tissues
* why bath salts can still be on the market?

Depressants

* identify 2 depressant drugs
* 3 reasons why used as date rape drugs
* why is this crime difficult to report
* 3 ways to protect yourself
* 4 factors that impact absorption of alcohol
* 2 reasons why females generally are more impacted by alcohol
* liver can process one drink per hour, better estimate is bac will drop by ...... each hour
* BAC is .10 at 8 pm, what time can you legally and safely drive home
* Issue of energy drinks and alcohol consumption

impat of carbonated drinks, water, food in stomach, gender, high body fat :put increase or decrease as your answer

Marijuana

* what category of drugs
* active ingredient, how many chemicals
* schedule is it? And what does that mean?
* pill form is called, and legal in how many staes
* 3 diseases used to treat
* 3 reasons why helpful
* how many states allow medical use

Narcotics

* 1 legal and 1 illegal
* medically used to treat:
* how used recreationally
* controlled release
* biggest risk...or what causes death
* should not be combined with what other drug category and why

Other Drugs

* huffing or sniffing household products
* what is hypoxia, sudden sniffiing death
* anabolic =, and androgenic =
* synthetic version of what hormone is anabolic steroids
* male effects and female effects
* therapeutic vs non therapeutic

Laws

* 2 differences between schedule I and schedule V
* law for teens and alcohol, and what is the legal bac when driving
* 2 reasons why some states make bac .01 and .02
* adult alcohol and driving law is called and bac is
* what terms refer to : agree to chemical test
* what term refers to: reinstated license after alcohol oui is called
* identify 4 aggravating factors
* 3 leading killers of teens